METHOD AND APPARATUS TO GENERATE XHTML-PRINT CONTENTS

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application claims the benefit of Korean Patent Application No. 2006-43135, filed on May 12, 2006, in the Korean Intellectual Property Office, the disclosure of which is incorporated herein by reference.

BACKGROUND OF THE INVENTION

[0002] 1. Field of the Invention
[0003] Aspects of the present invention relate to extensible hypertext markup language (XHTML)-Print printing data that is printing data in the XHTML-Print language, and more particularly, to a method and apparatus to generate XHTML-Print printing data in which XHTML-Print extension data is generated corresponding to contents set by a user by inserting the generated XHTML-Printing extension data into XHTML-Print basic data prepared in advance, thus generating the XHTML-Print printing data adaptively according to an intention of the user.
[0004] 2. Description of the Related Art
[0005] There exists a need for a method of generating XHTML-Print printing data to print a variety of standardized data items stored in a terminal.

SUMMARY OF THE INVENTION

[0006] Aspects of the present invention provide a method of generating XHTML-Print printing data, by which XHTML-Print extension data is generated corresponding to contents of standard data desired to be printed, and by inserting the generated XHTML-Printing extension data into XHTML-Print basic data prepared in advance.
[0007] Aspects of the present invention also provide an apparatus to generate XHTML-Print printing data, which performs the method of generating XHTML-Print printing data.
[0008] Aspects of the present invention also provide a computer-readable recording medium having embodied thereon a computer program to execute the method of generating XHTML-Print printing data.
[0009] According to an aspect of the present invention, there is provided a method of generating extensible hypertext markup language (XHTML) data comprising: setting printing-related options to determine contents to be printed from among predetermined contents of one or more standard data items desired to be printed; generating XHTML extension data that can be inserted into XHTML basic data prepared in advance, corresponding to the set contents; and generating the XHTML data by inserting the generated XHTML extension data into XHTML basic data.
[0010] According to another aspect of the present invention, there is provided an apparatus to generate extensible hypertext markup language (XHTML) data comprising: an XHTML data setting unit to set printing-related options to determine contents to be printed from among predetermined contents of one or more standard data items desired to be printed; an XHTML basic data storage unit to store XHTML basic data included in XHTML printing data; an XHTML extension data generation unit to generate XHTML extension data that can be inserted into the XHTML basic data according to the set printing-related options; and an XHTML

data generation unit to read the stored XHTML basic data, and to generate the XHTML printing data by inserting the generated XHTML extension data into the read XHTML basic data.
[0011] According to another aspect of the present invention, there is provided a computer-readable recording medium having embodied thereon a computer program to execute a method of generating XHTML data, wherein the method comprises: setting printing-related options to determine contents to be printed from among predetermined contents of one or more standard data items desired to be printed; generating XHTML extension data that can be inserted into XHTML basic data prepared in advance, corresponding to the set contents; and generating the XHTML data by inserting the generated XHTML extension data into the XHTML basic data.
[0012] Additional aspects and/or advantages of the invention will be set forth in part in the description which follows and, in part, will be obvious from the description, or may be learned by practice of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[0013] These and/or other aspects and advantages of the invention will become apparent and more readily appreciated from the following description of the embodiments, taken in conjunction with the accompanying drawings of which:
[0014] FIG. 1 is a block diagram explaining an apparatus to generate XHTML-Print printing data according to an embodiment of the present invention;
[0015] FIGS. 2A through 2I are reference diagrams explaining a principle of generating XHTML-Print printing data when standard data is short message service (SMS) data, according to an embodiment of the present invention;
[0016] FIGS. 3A through 3D are reference diagrams explaining a principle of generating XHTML-Print printing data when standard data is multimedia messaging service (MMS) data, according to an embodiment of the present invention;
[0017] FIG. 4 is a flowchart illustrating a method of generating XHTML-Print printing data according to an embodiment of the present invention; and
[0018] FIG. 5 is a detailed flowchart of an operation of FIG. 4, where print related options are set according to an embodiment of the present invention.

DETAILED DESCRIPTION OF THE EMBODIMENTS

[0019] Reference will now be made in detail to the present embodiments of the present invention, examples of which are illustrated in the accompanying drawings, wherein like reference numerals refer to the like elements throughout. The embodiments are described below in order to explain the present invention by referring to the figures.
[0020] FIG. 1 is a block diagram explaining an apparatus to generate XHTML-Print printing data according to an embodiment of the present invention. The apparatus includes an XHTML-Print printing data setting unit 110, an XHTML-Print extension data generation unit 130, an XHTML-Print basic data storage unit 140, and an XHTML-Print printing data generation unit 150.
[0021] In the present embodiments, XHTML-Print basic data, XHTML-Print extension data, and XHTML-Print